

EXPLICIT CONTROL OF SPECULATION

ABSTRACT OF THE INVENTION

Described are methods and systems that allow partial speculation (e.g.,
5 speculation within constraints). With partial speculation, after a fault is detected
for example, speculation remains enabled for processor registers and other
memories private to a microprocessor, while speculation normally permitted for
certain other operations is suspended. Accordingly, while the fault is dispatched,
some speculation is permitted as opposed to suspending all speculation. As
10 such, microcode that makes use of speculation can be written.